



AUTOMOTIVE



PRODUCT LINE

FOREWORD



IndianOil's **SERVO** enjoys the Superbrand status and is India's No. 1 Lubricant brand powered by highest technology, quality standards and a wider range. This has been made possible by continued technical support of our R&D Centre at Faridabad, which is one of its kind in this part of the world. The continued technological upgrade of existing formulations developed by our R&D have moved from mere indigenization in the early 1970s to global standards now. IndianOil has also been innovating in terms of improvements in energy, economy, environment and emission control through lubricant formulations and has set a high standard for itself.

IndianOil's endeavor has always been to provide the best possible technical solution and guidance on lubrication to our esteemed customers. Towards this end, an updated version of the Product Line booklet is presented here, which provides information on various Automotive Lubricating Oils and Greases marketed by IndianOil and approved by Indian and Foreign OEMs.

We are happy to present this Product Line Booklet on Automotive Lubricants to our esteemed customers, which would serve as reference material. For more details, proper recommendation and application of these products, our customers are requested to avail the services of our experienced Technical Services Engineers who are posted in State Offices across the country and Head Office, Mumbai.

A handwritten signature in black ink, appearing to read 'Gurmeet Singh'.

(GURMEET SINGH)
DIRECTOR (MARKETING)

30th November, 2018
Mumbai

INTRODUCTION



Customer Service leading to customer delight is the key to success in any business. This approach has earned us great confidence of our valued customers with IOCL emerging as the India's largest commercial organization and building **SERVO** as largest selling lubricant brand in the country.

The automotive lubricants arena has undergone significant changes since the last edition of this booklet was published in 2013. The automotive lubricants segment has seen rapid developments in recent years due to design modifications in the engines and vehicles for achieving improved fuel economy, drive line efficiency, reliability, strict emission control norms, etc. This has resulted in an ever-expanding matrix of applications, performance standards and formulations.

This Product Line booklet provides a comprehensive yet concise compilation of IndianOil's **SERVO** automotive lubricants range as it exists today. The booklet also provides a brief outline on the specifications and applications of various automotive lubricating oils and greases marketed by IndianOil and approved by Indian and global OEMs operating in India. The booklet also provides information leading to the principles of correct lubrication to the users of **SERVO** lubricants to achieve knowledge-based resource optimisation.

We take immense pleasure in presenting this Product Line booklet on Automotive Lubricants to our esteemed customers and hope that it would serve as a valuable reference & ready-reckoner.

30th November, 2018
Mumbai

A handwritten signature in black ink that reads "Sanat Misra".

(Sanat Misra)
Chief General Manager I/C (Lubes)

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PASSENGER CAR MOTOR OILS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	TBN mg KOH/gm	Description / Application
Servo Super 20W-40 MG/ Servo Super MG 20W-40 Servo Super MG 20W-50 Servo Superior 20W-40	13.5 – 15.5 13.5 – 15.5 17.5 – 19.5 13.5 – 15.5	110 110 110 110	200 200 200 200	4.0 – 6.2 4.0 – 6.2 4.0 – 6.2 4.0 – 6.2	Servo Super MG 20W-40/Servo Super 20W-40 MG/ Servo Super MG 20W-50 /Servo Superior 20W-40 -Multigrade oils meet API SF/CF, IS:13656-2002 EPL-1/EDL-1 specification Servo Super Multigrade 20W-40 meets API CF4 performance levels These oils possess high detergency level and excellent oxidation Stability. These oils provide ease in cold starting and can be used under all climatic conditions. These oils are general purpose engine oils for use in all seasons in gasoline engines, naturally aspirated engines operating under severe duty and supercharged diesel engines and for power generating sets operating on HSD. These oils are catalytic converter compatible.
Servo Super Multigrade 20W-40	13.5 – 15.5	110	200	5.5 - 7.0	
Servo Auto Rickshaw Oil 20W-40 Servo Auto Rickshaw Oil 20W-50	13.5 – 15.5 17.5 – 19.5	110 110	200 200	4.0 – 6.2 4.0 – 6.2	
Servo Chhakada Oil 20 W - 40	13.5 – 15.5	110	200	4.0 – 6.2	
Servo Taxi Oil	17.5 – 19.5	110	200	4.0 – 6.2	
Servo Superior XEE 5W-30	10.0 – 12.0	150	190	6 – 8.5	Servo Superior XEE 5W-30 is a premium quality engine oils for the new generation petrol cars. These oils exceeds the performance level of API SG +for gasoline and demonstrate excellent sludge control and extra wear protection at high temperatures. The special feature of this oil is evaporation control and fuel economy prospects ensured through judicious selection of base oils and friction modifiers. This oil was approved for plant fill requirement of Maruti Suzuki Gasoline Cars.

PASSENGER CAR MOTOR OILS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	TBN mg KOH/gm	Description / Application
Servo XEE SJ 10W-30	9.5 - 11.0	130	200	9.0 -11.0	Servo XEE SJ oils are new generation engine oils meeting API SJ for gasoline service and API CF for diesel service and also meets E-PL4/E-DL2 of IS:13656:2002. These oils provide better deposit control, dispersancy and control on oil thickening. They are recommended for new generation cars and provide better performance in earlier models also. These oils are catalytic converter compatible. Servo XEE SJ 10W-30 and Servo XEE SJ 10W-40 has credentials of ILSAC GF-2. Servo XEE SJ 15W-40 is approved for Tata Nano.
Servo XEE SJ 10W-40	13.5-14.5	140	200	9.0 -11.0	
Servo XEE SJ 15W-40	13.5-15.5	135	200	4.5 – 6.0	
Servo XEE SJ 20W-50	17.5-19.5	130	200	9.0 -11.0	
Servo XEE SL 0W- 20	7.8 – 8.4	150	200	6.30 – 7.70	Meets API SL performance level in SAE 0W20. Product approved for service fill/ plant fill applications by MSIL .
MGO 0W-20	7.8 – 8.4	150	200	6.30 – 7.70	Meets API SL performance level in SAE 0W20. Product approved by MSIL for aftermarket.
Servo XEE SL 5W- 20	8.0 – 9.3	145	190	5 – 7	Servo XEE SL Oils meet API SL for gasoline service. It is for use in service typical of gasoline engines in present and earlier models of passenger cars, sport utility vehicles and vans. These oils provide superior deposit control, dispersancy; wear control and lower oil consumption besides outstanding low temperature pump ability. They comply with ILSAC GF-3 performance standard. Servo XEE 5W-20 and 10W-30 are Energy Conserving as per API certification system. These oils are catalytic converter compatible. Servo XEE SL15W-40 is used for plant fill of Hyundai Santro Cars.
Servo XEE SL 10W-30	9.5-11.0	130	200	9.0-11.0	
Servo XEE SL 15W- 40	13.5 - 15.5	135	200	5.5– 7.5	
Servo XEE SL 20W- 50	17.5-19.5	135	200	5.5– 7.5	

PASSENGER CAR MOTOR OILS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	TBN mg KOH/gm	Description / Application
Servo XEE SM 5W-30	10.0 – 12.0	145	160	7.0 – 8.5	Servo XEE SM Oils are the new generation engine oils designed to provide improved oxidation resistance, excellent sludge control, outstanding engine cleanliness, better wear protection and superior energy efficiency. These oils meet API SM and ILSAC GF-4 performance level. They also qualify as 'Energy Conserving' as per API certification system Servo XEE SM 5W-30 approved for plant fill applications by Hyundai MOTORS Servo XEE SM 10W-30 approved for plant fill applications by RENO-NISSAN MOTORS
Servo Futura P 10W-30 Servo Futura P 10W-40	10.0 – 12.0 13.5 – 15.5	130 135	190 190	7.0 – 8.5 7.0 – 8.5	Servo Futura P Oils are the new generation engine oils designed to provide improved oxidation resistance, excellent sludge control, outstanding engine cleanliness, better gear protection and superior energy efficiency. These oils meet API SM and ILSAC GF-4 performance level. They also qualify as 'Energy Conserving' as per API Licensing system.
Servo SyN 5W-30	10-12	150	200	6 - 8	Servo SyN 5W-30 is a superior performance engine oil and meets performance level of API SN and ILSAC GF5. It is recommended for new generation gasoline cars and SUVs meeting the latest emission standards. It is designed to provide improved piston cleanliness, engine sludge protection, E85 emulsion retention and rust protection and emission system durability.
Servo Super Synth 5W-50	17-18	150	200	6.85 – 7.8	Servo Super Synth 5W-50 / Futura Synth is a fully synthetic, superior performance engine oil and meets performance level of API SM/CF. It is recommended for new generation gasoline and Diesel engines. It is also recommended for certain compressor engines.
Servo Futura Synth	18-21	150	200	6.85 – 7.8	Servo Futura P Plus is a high performance engine oil based on synthetic chemistry and meets the performance level of API SN and ILSAC GF5, It is recommended for new generation gasoline cars and SUVs meeting the latest emission standards.

PASSENGER CAR MOTOR OILS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	TBN mg KOH/gm	Description / Application
Servo Futura P Plus 5W-30	10-12	150	200	6 - 8	<p>Servo Futura Synth 5W-50 is a fully synthetic engine oil blended with synergistic additive system for outstanding detergency, dispersancy characteristics, antiwear and antioxidant properties, high viscosity index and low temperature flow properties. The additive chemistry and dosage are carefully optimized for control on elements resulting in retention of effectiveness of catalytic converters. This delicately balanced composition provides and exceed tough industry performance standards thus ensuring reliability emission control, economy and endurance. It meets performance level of API SN/CF and recommended for gasoline cars.</p> <p>Servo Futura P Oils are the new generation engine oils designed to provide improved oxidation resistance, excellent sludge control, outstanding engine cleanliness, better gear protection and superior energy efficiency. These oils meet API SM and ILSAC GF-4 performance level. They also qualify as 'Energy Conserving' as per API Licensing system.</p>
Servo Futura Synth 5W-50	16-21	150	210	6 - 8	
Servo Futura P 10W-30	10.0 – 12.0	130	190	7.0 – 8.5	
Servo Futura P 10W-40	13.5 – 15.5	135	190	7.0 – 8.5	
Servo SyN 5W-30	10-12	150	200	6 - 8	<p>Servo SyN 5W-30 is a superior performance engine oil and meets performance level of API SN and ILSAC GF5. It is recommended for new generation gasoline cars and SUVs meeting the latest emission standards. It is designed to provide improved piston cleanliness, engine sludge protection, E85 emulsion retention and rust protection and emission system durability.</p>
Servo Super Synth 5W-50	17-18	150	200	6.85 – 7.8	<p>Servo Super Synth 5W-50/Futura Synth is a fully synthetic, superior performance engine oil and meets performance level of API SM/CF. It is recommended for new generation gasoline and Diesel engines. It is also recommended for certain compressor engines.</p>
Servo Futura Synth	18-21	150	200	6.85 – 7.8	
Servo Futura P Plus 5W-30	10-12	150	200	6 - 8	<p>Servo Futura P Plus is a high performance engine oil based on synthetic chemistry and meets the performance level of API SN and ILSAC GF5, It is recommended for new generation gasoline cars and SUVs meeting the latest emission standards.</p>

PASSENGER CAR MOTOR OILS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	TBN mg KOH/gm	Description / Application
Servo Futura Synth 5W-50	16-21	150	210	6 - 8	Servo Futura Synth 5W-50 is a fully synthetic engine oil blended with synergistic additive system for outstanding detergency, dispersancy characteristics, antiwear and antioxidant properties, high viscosity index and low temperature flow properties. The additive chemistry and dosage are carefully optimized for control on elements resulting in retention of effectiveness of catalytic converters. This delicately balanced composition provides and exceed tough industry performance standards thus ensuring reliability emission control, economy and endurance. It meets performance level of API SN/CF and recommended for gasoline cars.
Servo Futura Synth 0W-40	13.5 – 15.5	150	200	6.5 – 9.0	Servo Futura Synth 0W-40 is a fully synthetic engine oil blended with synergistic additive system for outstanding detergency, dispersancy characteristics, anti-wear and antioxidant properties, high viscosity index and low temperature flow properties. The additive chemistry and dosage are carefully optimized for control on elements resulting in retention of effectiveness of catalytic converters. This delicately balanced composition provides and exceed tough industry performance standards thus ensuring reliability emission control, economy and endurance. It meets performance level of API SN/CF and recommended for gasoline cars. Product is approved by MSIL after endurance testing at Suzuki Motor Corporation, Japan for aftermarket (Gasoline Engines).
Servo Futura Synth Plus 5W-30	9.3 – 12.5	160	200	10 min	Meets ACEA A5/B5 & API SN performance levels.
Servo Futura D 5W-30	9.3 – 12.5	155	200	10 min	Meets ACEA A5/B5 & API SN/CF and MB 229.5 performance levels Product approved by Hyundai Motors for factory fill. Futura D is recommended for high diesel cars, SUVs, LCVs and HCVs. It meets API CI 4 & SL, MB 228.3 and Volvo VDS3 and Cummins CES 20076/20077/ 20078 ACEA E7 requirement.
Servo Futura D Plus 5W-30	9.3 – 12.5	160(T)	200	7.2 – 8.8	Meets ACEA A5/B5 performance levels. Approved Reno France for First fill .

PASSENGER CAR MOTOR OILS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	TBN mg KOH/gm	Description / Application
Servo Futura D 15W-40	14-15	135	200	9 – 12.5	Servo Futura D is a long life high performance diesel engine oil compatible with engines conforming to advanced emission norms. It is a SAE 15W40 grade oil meeting API C14 performance level for diesel engines and API SL requirement for petrol engine. It also meets performance requirements of ACEA E 7, MB 228.3 , Volvo VDS 3 and Cummins 20076, 20077, & 20078 requirements.
Servo Futura G 5W-30	11 – 12.0	150	200	9.1 min	Meets API SL/CF, MB229.5, ACEA A3/B4-08 credentials and is recommended as a generic PCMO for both petrol & diesel segment for aftermarket applications.
Servo Futura G Plus 5W-30	10.5 – 11.5	150	200	9.3 – 11.5	Meets API SN, ACEA A5/B5-2012 credentials and is recommended as a generic PCMO/PCDEO for both petrol & Diesel segment for after market applications.
Servo Futura Plus 0W-20	7.5 – 8.2	150	200	6.0 – 10.0	Servo Futura Plus 0W-20 meets API SN and ILSAC GF-5 performance levels.
Servo Superior 0W-20	7.8 – 8.3	160	200	6.75 – 8.25	Servo Superior 0W-20 meets SAE 0W-20 API SN/ILSAC GF5 credentials and is approved by M/s. Hyundai Korea for factory fill applications of M/s. HMIL India.

DIESEL ENGINE OILS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	TBN mg KOH/gm	Description / Application
Servo Pride 30 Servo Pride 40 Servo Pride 50 Servo Pride MG 5W-30 Servo Pride MG 10W-30	10 – 12 13 – 15 18 – 20 10–11.5 11 – 12	95 90 90 150 120	220 220 220 160 190	9.5 – 12.5 9.5 – 12.5 9.5 – 12.5 9 - 11 10 – 12	Servo Pride oils are long drain engine oils, having good built-in alkaline reserves to combat corrosive wear. These oils meet API CF/CD, US Military MIL-L-2104C, Caterpillar Series 3, Sequence III F performance and exceed E-DL3 of IS:13656-2002 and MACK T-7 Specifications. These oils maintain outstanding engine cleanliness and provide increased wear resistance and long life of the engine and are recommended for naturally aspirated and highly supercharged / turbocharged diesel vehicles operating under severe duty conditions. These oils possess high oxidation stability and thermal stability to resist decomposition in service and having excellent ability to control viscosity due to soot related oil thickening. Servo Pride Multigrades are suitable for all seasons.
Servo Super Plus 20W- 40	13.5 – 15.5	110	220	9.5 – 12.5	Servo Super Plus 20W-40 is designed to provide longer engine life and oil drain period. It ensures high engine cleanliness, protection against corrosion and wear, control of viscosity due to soot related oil thickening. It meets API CF/CD, US Military MIL-L-2104C, Sequence III F and exceeds IS:13656-2002 EDL 3 and MACK T-7 performance level. It is recommended for naturally aspirated and highly supercharged / turbocharged diesel engines operating under severe duty conditions in all seasons.
Servo Premium 20W-40	13.5 – 15.5	110	200	9.5 – 12.5	Servo Premium 20W-40 is high performance multigrade oil recommended for supercharged and turbocharged diesel engines. It meets API CF/CD, MIL-C, MACK T-7, Sequence III F and exceeds E-DL3 of IS:13656-2002 specifications. Servo Premium 20W-40 is ideally suited for power generating sets, off-highway equipment, power packs of locos operating on distillate fuels.
Servo Fleet CF4 15W-40	13 – 15	120	200	6 – 11.5	Servo Fleet CF-4 15W-40 is super quality commercial multipurpose diesel engine oil. This oil meets API CF4 service classification for modern and low emission diesel engines. This oil assures outstanding protection against high temperature engine deposits, oil degradation, oil thickening and corrosion. It is recommended for new generation commercial diesel engines operating on heavy-duty on-highway and off-highway equipments.

DIESEL ENGINE OILS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	TBN mg KOH/gm	Description / Application
Servo Ultra 40	5.0 (min.)	95	190	9.5 – 12.5	Servo Ultra oils have high detergency level and excellent oxidation stability. These oils meets API CF / CD, EDL 2 of IS 13656 specifications. These grades are recommended for turbocharged diesel engines of heavy-duty vehicles, earth-moving equipment etc Servo Ultra 40 (E) is a low TBN oil for initial fill of tractors.
Servo Ultra 50	10 – 12	90	200	9.5 – 11.0	
Servo Ultra 40 (E)	13 – 15	90	226	9.5 – 11.5	
	18 – 20	90	230	9.5 – 11.5	
Servo Ultra 40 (E)	13- 15	90	226	4.5 – 6.5	
	14 – 15	90	226	9.5 – 12.5	Servo Ultra 40 RR meets API CF/ CD , EDL 2 of IS 13656 specifications. Besides this Ultra 40 RR also meets specification 1051/91 of MTU, Germany. Ultra 40 RR is recommended for MTU engines in marine applications and in stationary power generating sets.
Servo Ultra 40 RR	14 – 15	90	226	9.5 – 12.5	
Servo Ultra 10W, Ultra KB 10	5.0(min.)	95	200	9.5 – 11.0	Servo Ultra KB oils are specially formulated products approved by BEML for use in the hydraulic, transmission systems and engines of off-highway equipment manufactured by them. Servo Ultra KB 10 meets BEML ED 1OCD specification and also API CF, US MIL-L-2104C and MACK T-7 and E-DL3 of IS:13656-2002. Servo Ultra KB 30 conforms to BEML ED 30CD requirements and also meets API CF and E- DL3 of IS:13656-2002.
Servo Ultra 30, Ultra KB 30	10 – 12	90	200	9.5 – 11.0	
Servo DS 30	10 – 12	95	220	9.0 – 12.5	Servo DS 30 meets API CF, CD requirement. Servo DS 40 meets CF/ CD, MIL-C, MackT-7 Seq IIIF. These grades are recommended for turbocharged diesel engines used in SUVs and commercial vehicles
Servo DS 40	13 – 15	90	220	9.0 – 12.5	
Servo DS 50	18 – 20	90	230	9.0 – 12.5	

DIESEL ENGINE OILS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	TBN mg KOH/gm	Description / Application
Servo Premium CF-4 15W-40 Servo Premium CF-4 10W-40	13 – 15 13 - 15	120 130	200 190	7.0 – 11.0 7.0 – 11.0 9.5 – 11.5	Servo Premium CF-4 15W-40 is premium quality commercial multipurpose diesel engine oil. This oil meets API CF4/SG service classification for modern and low emission diesel engines. This oil assures outstanding protection against high temperature engine deposits, oil degradation, oil thickening and corrosion. It is recommended for new generation commercial diesel engines operating on heavy-duty on-highway and off-highway equipment and also for Gasoline engines allowing to be used in mixed fleet operations. It also meets the performance requirements of ACEA E2-96, MB 228.1, Cummins CES 20075, issue11/92, MAN 271,, Volvo VDS and Mack EO-K2 . Servo
Servo Premium CG-4 15W-40 Servo Premium CG-4 10W-40	13 – 15 13 – 15	135 130	200 190	10.0 –11.5 8.3- 11.5	Servo Premium CG-4 15W-40 is multipurpose high performance diesel engine oil. Meets API CG-4/SH service classification. It also meets ACEA E3-96, MB 229.1, Volvo VDS 2 and MTU Type II requirements. This oil is recommended for use in diesel engines used in both heavy-duty on-highway and off-highway applications. This oil provides effective control over wear, high temperature piston deposits, and foaming and soot accumulation.
Servo Pride TC 15W-40	14 – 15	120	200	7.0 – 10.5	Servo Pride TC 15W-40 is specially designed for heavy duty Commercial vehicles with turbo charged engines. It meets API CH4 Performance level. It provides excellent engine cleanliness and Protection against wear and corrosion.
Servo Premium (N) 15W-40	14 – 15	130	190	8.5 – 11.5	Servo Premium (N) 15W-40 is a premium quality engine oil designed for the severe performance requirements of new generation diesel engines of both American and European Design used in on and off highway operations. It has excellent shear stability and provides reduce engine scuffing and bore polishing, improved control and oil consumption and protection from wear and deposits. Meets MB 228.3, ACEA E7-12,VDS-3,Mack EO-N,Cummins CES 20078 and API CI-4, performance levels. It is approved by M/s. MTU Germany for use in MTU engines and DDC engines series 2000 / 4000.

DIESEL ENGINE OILS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	TBN mg KOH/gm	Description / Application
Servo Fleet XTRA CH4 15W-40	14 – 15	135	200	9.5 -11.5	Servo Fleet Xtra CH4 is premium quality diesel engine oil designed for severe performance requirements of new generation commercial vehicles for on-highway and off-highway operations. It is tailored to the lubrication requirements of engines complying to EURO III/BS III and is specially compounded for use with diesel fuel ranging in sulphur content upto 0.3% by wt. It meets the performance level of API CH4, MB 228.3, MACK EO-M Plus ,Volvo VDS 3, ACEA E7, and Cummins CES 20077.
Servo Pride XL 5W-40	13.5 – 15.5	150	220	9-11	Servo Pride XL 15W-40 is a fully synthetic engine oil meeting API CH4/ SL, MB 228.3, CES 20076 and Global DHD 1.
Servo Pride XL 10W-40	13.5 – 15.0	135	200	8.5 – 11.5	Servo Pride XL is designed for the most severe performance requirement of new generation diesel engines for on-highway & off - highway operations. It can be used with engines conforming to Euro II & Euro III norms with internal Exhaust Gas Recirculation(EGR) systems. It provides excellent control on soot induced oil thickening & wear and assures outstanding protection against high temperature deposits, oil degradation and corrosion. It is an API certified product meeting performance level of API CH-4, MB 228.3, ACEA E7, Cummins CES 20077, MAN 3275, MACK EO-N, Renault VI RLD-2 And Volvo VDS3 requirement. It has potential to double the drain period compared to conventional API CF-4 Oil. Servo Pride XL 15W-40 (M) meets Maruti Suzuki's plant fill requirement of Diesel Engines.
Servo Pride XL 15W-40	13.5 – 15.5	135	200	8.5 –11.5	
Servo Pride XL 15W-40 (M)	14 – 15	135	200	8.5– 11.5	
Servo Premium ALT 15W-40	13.0 – 15.0	120	200	7.0 – 11.0	Servo Premium ALT 15W-40 is approved by M/s. Ashok Leyland for their commercial vehicles complying with Bharat Stage – I & II Emission norms. It meets API CF 4,MB 228.1 & EDL 4 of IS 13656 Performance levels. It provides excellent protection against high temperature engine deposits, oil degradation, oil thickening and corrosion. It is recommended for Turbo charged diesel engines for transport fleet application and off-highway operations.

DIESEL ENGINE OILS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	TBN mg KOH/gm	Description / Application
Servo Pride ALT 15W-40	14.0 – 15.0	135	200	9.0 – 11.5	Servo Pride ALT 15W-40 is premium quality commercial diesel engine oil approved by M/s. Ashok Leyland for their new generation vehicles complying with Bharat Stage II & III emission norms. It assures outstanding protection against high temperature engine deposits, oil degradation and control on soot induced thickening and wear. It has the potential for enhanced oil drain period u of 36000 KMs.
Servo Pride TM 15W-40	14 – 15	135	200	9.0 – 11.5	Servo Pride TM 15W-40 is a green dyed diesel engine oil approved by Tata Motors for plant fill and it meets API CH-4 and Tata Motors requirements with enhanced oil drain period.
Servo Pride TM Plus 15W-40	14 – 15	125	200	9.5 – 12.5	Servo Pride TM Plus 15W-40 is recommended for BS III vehicles of Tata Motors. It meets API C14 Plus, ACEA E7, MB228.3, VDS-3, CES20077 Performance levels. Product approved by Tata Motors for use in Its commercial vehicles. This oil is suited for engines with Exhaust Gas Recirculation(EGR).
Servo Pride Supreme 15W-40	14.0 – 15.0	135	200	9.0 – 12.5	Servo Pride Supreme 15W-40 is API certified C1-4 / SL performance level engine oil designed for most severe performance requirements of new generation diesel engines for on & off highway operations. It provides outstanding protection against high temperature engine deposits, oil degradation, control on soot-induced thickening, corrosive wear and valve-train wear. It meets the performance level of ACEA E 7 , MB 228.3, Volvo VDS 3, Cummins CES 20076 ,20077 & 20078, Mack EO-N and Renault VI RLD-2. It can also effectively lubricate engines requiring API CH4, CG4 & CF 4 service category lubricants. It can be used in all applications with diesel fuel with sulphur content upto 0.05% wt. These oils are especially effective where Exhaust Gas Recirculation (EGR) is deployed.

DIESEL ENGINE OILS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	TBN mg KOH/gm	Description / Application
Servo Pride ALT Plus 15W- 40	14.0 -15.0	135	200	9.5 – 12.5	Servo Pride ALT Plus 15W- 40 meets API CI4 Plus,ACEA E7, MB228.3 ,VDS-3,CES 20078 & MAN 3275 performance levels. The product is developed for Euro III/IV EGR Vehicles of Ashok Leyland's naptune platform & approved Ashok Leyland . It has excellent soot handling capacity in terms of control on soot induced thickening and soot fitted with EGR and oil drain induced wear and therefore significantly potential of 80000KMs higher long. drain potential.
Servo Pride Supreme Plus 15W-40	14 – 15	135	200	9.5 – 12.5	Recommended for LCV / HCVs with or without EGR for BS III / IV vehicles. It meets API CI 4 Plus, ACEA E7, MB 228.3, VDS-3, CES 20076/CES 20077/CES 20078 specs. approved by Escorts AMG for their Tractors with EGR.It has potential for increasing the drain period compares to an API CH4 OIL.
Servo Pride XL Plus 15W- 40	14 – 15	136	200	9.5 – 11.5	Approved by Tata Cummins for their BS III engines for 40,000 km/ 500 Hrs. Meets API CI 4 Plus, ACEA E7, MB 228.3, VDS-3, CES 20076/ CES 20077/CES 20078 specs. Also suitable for EGR fitted BS IV Engines of other OEMs.
Servo Pride Max 15W-40	14.5 – 15.5	135	200	6.5 – 9.5	Servo Pride Max 15W-40 is the top-of-the-shelf API certified CJ 4 / SM service category engine oil designed for the most severe performance requirements of latest diesel engine vehicles operating with Ultra Lower Sulphur Diesel (< 50 ppm). It has low SAPS (Sulphated Ash, Phosphorous and Sulphur) oil compatible with emission control systems where diesel particulate filter and other advanced after treatment systems like SCR are used. It provides superior protection against piston wear, engine deposits and soot thickening and has excellent oxidation and shear stability. It also meets ACEA E9 performance requirements. It can also effectively lubricate engines requiring API CI4, CH4, CG4 & CF4 service Category lubricants.

DIESEL ENGINE OILS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	TBN mg KOH / gm	Description / Application
Servo Pride FE 10W-30(D)	11 - 12	135	200	11.8 -13.10	Meets API C14 Plus+ACEA E7+MB 228.3+VDS 3+CES 20076/20077/20078 specification and is suitable for use as diesel engine oils for commercial vehicles where long drain intervals are required. Product is approved by Volvo Eicher for its Commercial Vehicles Product with Dye is specifically for supplies to Volvo Eicher Commercial Vehicles (VECV).
Servo Fleet Supreme CI4 15W-40	14 - 15	135	200	9.5 – 11.5	Servo Fleet Supreme CI4 15W-40 meets API C14 PLUS + ACEA E7 + MB 228.3 + VDS-3 + CES 20076/CES 20077/CES 20078 performance levels. Recommended for LCV / HCVs with or without EGR for BS III / IV vehicle. *Potential Oil drain interval – 80000 KMs
Servo Pride Next 10W30	11.5 – 12.5	135	200	6.8 – 11.0	Servo Pride NEXT oils are top-of-the-shelf API certified CK4 / ACEA E9-16 and MB 228.31 service category engine oil specially designed for the most severe performance requirements of latest Euro/BS VI compliant diesel engine vehicles operating with Ultra Lower Sulphur Diesel (< 10 ppm). It has low SAPS (Sulphated Ash, Phosphorous and Sulphur) oil compatible with emission control systems where diesel particulate filter and other advanced after treatment systems like SCR are used. It provides superior protection against piston wear, engine deposits and soot thickening and has excellent oxidation and shear stability. It can also effectively lubricate engines requiring API C14, CH4, CG4 & CF4 service Category lubricants.
Servo Pride Next 10W40	14 - 15	135	200	6.8 – 11.0	
Servo Pride Next 15W40	14 - 15	135	200	6.8 – 11.0	
Servo Pride XM 15W-40	14 - 15	120	200	9.5 – 11.5	Product Meets API CF4 performance level and top treated with Nano additive for better fuel economy.

UNIVERSAL TRACTOR OIL, SUPER TRACTOR OIL UNIVERSAL AND UNIVERSAL TRACTOR / TRANSMISSION OIL

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	TBN mg KOH / gm	Description / Application
Universal Tractor Oil Servo Tractor Oil 20W-40	13.5 – 15.5	110	200	9.5 – 12.5	Servo Tractor Oil 20W-40 is a multigrade universal tractor oil, specifically formulated to meet all the lubrication requirements of tractors. Meets API CF/CD, Caterpillar Series 3, US Military MIL-L-45199B, MACK T-7+Seq IIIF and IS:13656-2002 E-DL3 performance levels for engine oils. Also meets API GL-4 and US Military MIL-L-2105 performance levels for gear and transmission lubricants. Servo Tractor Oil MG 20W-40 is recommended for the engine combined transmission and hydraulic system of tractors.
Super Tractor Oil Universal (STOU) Servo Unitrac 30 Servo Unitrac 15W-30	10 – 11 10 – 11	90 110	200 200	9.30–12.2 9.30–12.2	Servo Unitrac oils are 'Super Tractor Oil Universal' (STOU) fluids carefully engineered to meet the diverse performance requirements of engine, transmission and final drives and hydraulic systems of modern farm tractors. They are also recommended for oil immersed(wet) brakes and power takeoff (PTO) clutches. These highly versatile oils meet API CE/SF, US MIL-L-2104D, US MIL-L-46152B and US MIL-L-21260C, ACEA E-3 performance level. They also meet the service specifications of major international tractor manufacturers like Ford / New Holland M2C 159B and M2C 159C, Massey Ferguson M 1139 and John Deere J27 for Universal applications, Ford M2C 134D, Massey Ferguson CMS 1135, Case MS 1207 and ZFs TEMPL 07 for transmission, Denison HF-0 for hydraulic systems, C4 of Detroit Allison Division and Caterpillar TO-2 for automotive transmission. These oils can be used for total lubrication of off-highway machinery, tractors and related equipment.
Universal Tractor / Transmission Oil (UTTO) Servo Transtrac 30	11.5 – 12.30	95	180	3- 4	This multipurpose power / transmission oil is recommended for use in transmission, hydraulic and wet brake systems of tractors. It meets the Massey Ferguson M1135/M1141, Ford M2C 134D, and J20C/D specifications. It ensures high-level protection from corrosion and rust for maximum gear life. The oil has balanced friction characteristics for wet brake and power take off clutches in addition to the strong thermal stability for transmissions operating at high temperatures.

UNIVERSAL TRACTOR OIL, SUPER TRACTOR OIL UNIVERSAL AND UNIVERSAL TRACTOR / TRANSMISSION OIL

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	TBN mg KOH / gm	Description / Application
Universal Tractor /Transmission Oil (UTTO)					<p>Servo OIB Oil meets requirements of transmission, hydraulic & wet brake system of Tractors. It also meets Massey Ferguson M1135/ M1145, J20C/D ,Allison C4 , Caterpillar TO-2 and API GL4 specifications. Servo OIB Oil Plus is a premium UTT oil meets requirements of transmission, hydraulic & wet brake system of Tractors. It also meets Massey Ferguson M1135/ M1145, J20C/D, ,allison C4, API GL4 and Case New Holland MAT 3505 specifications. Servo Mtrac 30 is approved by Mahindra & Mahindra for its Tractors meeting requirements of transmission, hydraulic& wet brake Systems.</p>
Servo OIB Oil	10.3 – 11.0	110	180	6.2(Typ)	
Servo OIB Oil Plus	11.5 – 12.5	110	200	8.5 – 10.4	
Servo MTRAC 30	11.5 – 12.5	110	190	-	
Servo Tractor Oil plus 15W-40	14 - 15	135	200	9.5 – 12.5	<p>Servo Tractor Oil Plus 15W-40 is a multigrade universal tractor oil, specifically formulated to meet all the lubrication requirements of tractors. Meets API C14 Plus ,ACEA E7, MB 228.3,VDS-3,CES 200776/20077/20078 performance levels for engine oils. Servo Tractor Oil Plus 15W-40 is recommended for the engine combined transmission and hydraulic system of tractors.</p>

AGRICULTURE PUMP SET OIL, BOAT ENGINE OIL AND FOUR STROKE 2/3 WHEELER OILS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	TBN mg KOH / gm	Description / Application
Agriculture Pump Set Oil Servo Super Pump Set Oil 40 Servo Pump Set Oil 20W-40	13 – 15 13 – 15	90 110	226 200	3.0 – 5.0 3.0 – 5.0	Servo Super Pump Set Oil 40 is formulated for the lubrication of bearings and cylinders of diesel engines where operating conditions require highly detergent type of engine oil. Recommended for slow, medium and high speed stationary diesel engines equipped on agricultural pump sets operating on High Speed Diesel or LDO. Gives good performance in HSD/LDO operated power generating sets also. Servo Pump Set Oil 20W-40 meets API-CC/SC. TYPE E-DL1/E-PL1 Of IS 13656 performance levels.
Boat Engine Oil Servo Boat Engine Oil 20W-40 Servo Indane Boat Engine Oil Servo Boat Engine Oil 15W-40	13.5 – 15.5 13.5 – 15.5 14 – 15	110 110 135	200 200 200	9.5– 12.5 4.5 – 6.0 9.0– 12.5	Servo Boat Engine Oil 20W-40 is a high performance diesel engine oil for use in fishing boats/ trawlers during all seasons. It provides Excellent protection against corrosion and wear, lower fuel & engine oil consumption and outstanding engine cleanliness. Meets API CF/ CD+MIL-C+MACK T-7+SEQ IIF. Type EDL3 of IS 13656- 2002. This also can be used in other super charged diesel engines. Servo Indane Boat Engine Oil meets API-CC/SC, Type E-DL1/E-PL1 of IS 13656-2002. Formulated primarily for Indian Trawlers operating on LPG but can be used for dual fuel engines. Servo Boat Engine Oil 15W-40 meets API CI-4/SL+MB 228.3+ACEA E7 + CES 20076/CES20077/ CES20078 +VDS-3 performance levels.

FOUR STROKE 2/3 WHEELER OILS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	TBN mg KOH / gm	Description / Application
Servo 4T Servo 4T 10W-30 Servo 4T 20W-50	13.5 - 15.5 10.0 – 12.0 17.5 – 19.5	120 130 120	200 190 200	5.0 – 7.5 5.0 – 7.5 5.0 – 7.5	Servo 4T oils are high performance multigrade engine oils for four stroke engines of two / three wheelers such as motorcycles, scooters & auto rickshaws. Meet performance standards API SJ/CD & JASO MA 2 and are approved by major two / three wheeler manufacturers in India. The product provides enhanced engine life, higher fuel efficiency, maximum power output, clutch protection and outstanding overall engine cleanliness. The oil is catalytic converter compatible. Servo 4T 10W-30 is approved by Mahindra 2 Wheelers. Servo 4T 20W-50 meets API SL/MA2 specifications & specially recommended for Bajaj Pulsar.
Servo 4T Zoom Servo 4T Zoom 10W-30 Servo 4T Zoom 10W-40 Servo 4T Zoom 20W-50 Servo 4T Zoom M2	13.5 – 15.5 10.0 – 12.0 13.5 – 15.0 17.5 – 19.5 13.5 – 15.5	110 130 130 120 120	200 200 190 200 200	5.0 – 7.5 5.0 – 7.5 6.8 – 8.8 5.0 – 7.5 5.8 – 7.0	Servo 4T Zoom is a superior performance four stroke engine oil for two/three wheeler engines. Meets API SL/CF & JASO MA 2. Provides improved protection against wear and tear, longer engine and clutch life, higher fuel efficiency and enhanced engine cleanliness. Servo 4T Zoom 10W-40 meets API SL/JASO MA performance level and product is approved by Suzuki Motors for their 150 cc Suzuki GSX bikes. Servo 4T Zoom M2 meets API SL/MA2 performance level & SAE 20W-40 viscometrics. Product is approved by Mahindra 2 wheelers For plant & service fill. Recommended for Centuro Bikes with Recommended 10000 Kms oil drain interval.

FOUR STROKE 2/3 WHEELER OILS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	TBN mg KOH / gm	Description / Application
Servo 4T Goben 10W-30	10.0 – 10.5	140 (T)	200	7.5 – 9.0	Servo 4T Goben is a superior performance SAE 10W30 grade 4-stroke petrol engine oil for 2/3 wheelers, formulated with high quality base stocks and tailored made additive system to meet the requirements Japanese motorcycles. It provides outstanding performance in terms of engine cleanliness, wear protection and fuel economy. It meets API SJ and JASO MA performance requirement.
Servo Scootomatic 4ST 10W-30	10.0 – 11.5	110	200	5.2 – 8.5	<p>Servo Scootomatic 10W-30/20W-40 Meets API SL/JASO MB Performance level. Product is formulated for 4T scooter applications.</p> <p>Servo Scootomatic 10W-40 Meets API SL/MB specification & Performance level. Product is approved by Mahindra for its 2 wheelers Gusto scooters engine & transmission system. Oil is Approved for plant & service fill with recommended 3000 Kms Oil drain intervals .</p>
Servo Scootomatic 4ST 10W-40	13.5 – 15.5	135	200	6.4 – 8.4	
Servo Scootomatic 4ST 20W-40	13.5 – 15.5	110	200	5.2 – 8.5	
Servo 4T Bullet 15W-50	17.0 – 19.0	135	200	6.5 – 8.5	Meets API SM/MA2 spec of SAE 15W50 viscometrics. Product is specially formulated with high quality base stocks and tailored made additive system to meet the requirements of Bullet motorcycles. It provides outstanding performance in terms of engine cleanliness, wear protection and fuel economy.
Servo 4T Synth 10W-30	10 - 12	150	200	7 – 7.5	Servo 4T Synth 10W-30 is a superior performance engine oil developed with synthetic chemistry of base oil with additives for bikes and scooters for better engine cleanliness, wear protection and long life. It meets API SM JASO MA 2.

TWO STROKE 2/3 WHEELER OILS

PRODUCT	Kin. Viscosity cSt at 40°C	Flash Point PMCC, °C Min.	Sulphated Ash % Wt. (Max.)	Description / Application
Servo 2T Supreme	55 – 60	70	0.10	<p>Servo 2T Supreme/ Servo Maijo OBM Oil is a superior low smoke oil developed for two- stroke petrol engines. Meets API TC and JASO FC specifications. It emits low smoke and minimizes spark plug fouling / pre-ignition, minimizes deposit formation and provides protection against seizure, scuffing and wear. Contains diluent for easy mixing with petrol in the 'Petroil' system and proper pump ability in the oil injection system even at extremely low temperatures. Recommended for various types of two-stroke engines of mopeds, scooters, motorcycles and three- wheelers. Servo 2T Supreme is also suitable for small petrol engines used in sprayers, pumps, small generators, lawn movers etc. The recommended dosage of Servo 2T Supreme is 20 ml per litre of petrol.</p>
Servo MAIJO OBM Oil	55 – 60	70	0.10	

GAS ENGINE OIL

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	Sulphated Ash % Wt. (Max.)	Description / Application
Servo Special NG 40	13.5 -14.0	90	220	0.1	Servo Special NG 40 is a premium quality gas engine oil recommended for lubrication of gas engines, especially of two stroke type. Meets Cooper Bessemer, U.S.A., Engineering standard SE-114-2. Provides excellent dispersancy, high temperature detergency and oxidation stability combined with effective corrosion protection. Servo Special NG 40 ensures negligible carbon and ash deposits during service.
Servo NG 40	13 – 15	100	200	0.51	Servo NG 40 is a low ash gas engine oil developed for use in stationary gas engines running on Natural Gas. It ensures engine cleanliness and minimum deposits/wear thereby leading to longer engine life.
Servo NG 15W-40	13.5 – 15.5	130	200	0.50	Servo NG 15W-40 is a low ash multigrade gas engine oil designed especially for use in modern, highly rated industrial stationary gas engines running on natural gas. Provides excellent oxidation stability, protects cylinders and bearings against corrosive wear and maintains good engine cleanliness thereby contributing to longer engine life. Suitable for Cummins and Caterpillar engines operating on natural gas.
Servo Gas Engine Oil	17.5-19.5	120	200	0.90	Servo Gas Engine Oil is high performance medium ash gas engine oil for light vehicles operating on gas such as LPG, CNG. Also suitable for four stroke three wheelers operating on gas. It meets API SF/CF and IS:13656-2002 E-PL2/E-DL2. Provides longer engine life, protection against wear at high temperatures and excellent oxidation stability. Catalytic converter compatible. Approved by M/s. Hindustan Motors.
Servo Pride GEO 15W-40 Servo Pride GEO 20W-50 Servo Pride GEO ALT 20W-50	12.5-16.3 17.5-19.5 17.5-19.5	110 130 120	200 200 200	0.80(T) 0.60 0.60	Servo Pride GEO oils are high performance, low ash, gas engine oils for use in heavy duty commercial vehicles operating on gaseous fuels like CNG, LPG etc. Provide excellent resistance to oxidation and nitration, protection against corrosion and wear, and ensure engine cleanliness. Servo Pride GEO 15W40 meets CES 20074 specification of Cummins USA and approved by Cummins., Servo Pride ALT GEO 20W50 is approved by M/s. Ashok Leyland for CNG Buses

GAS ENGINE OIL

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	Sulphated Ash % Wt. (Max.)	Description / Application
Servo Pride GEO TM 15W-40	15.0 -16.0	110	200	0.95	<p>Servo Pride GEO TM 15W-40 meets the TATA specifications and Product is approved by TATA Motors Ltd. for use in their CNG Gas engines. Drain interval of this product as per TATA recommendations is 20,000 kms. Servo Pride GEO 15W-40 LL meets in TATA specifications and product is recommended to use four-stroke mobile gas engines which require mid ash engine oil. The product is approved by TATA Motors as long drain gas engine oil for all TATA CNG vehicles for aftermarket. The recommended drain interval with this oil is 20000 kms for application with 3.8 SGI engine and 18000 kms for application with 5.7 SGI.</p>
Servo Pride GEO 15W-40 LL	14.0 -15.5	125	200	0.75	

PRESERVATIVE - CUM - RUNNING - IN OILS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	TBN mg KOH/gm	Description / Application
Servo Reo 30 Servo Reo 40	10 – 12 13 – 15	90 90	220 226	9.5 – 12.5 9.5 – 12.5	Servo Reo oils are superior performance running-in oils recommended for engine running-in purpose and also as an engine oil for drive away chassis. It gives excellent controlled wear i.e. - 'green mating" surfaces on the piston ring and cylinder assembly during running-in operation. This oil offers excellent rust protection and can be used for engines scheduled for export and where time lag between production and use by the customer. Meets the performance level of API CF,US MIL-L-45199B, IS:13656-2002 E-DL2 and DB 6551 corrosion test. Products are approved by Telco and Hindustan Motors as running –in oil.
Servo Preserve 30 Servo Preserve 40 Servo Preserve 50	10 – 12 13 – 15 18 – 20	90 90 90	220 224 230	6 – 7 6 – 7 6 - 7	Servo Preserve oils are premium engine preservative-cum-running- in oils for new engines. These oils protect engine components against rust and corrosion during periods of storage and transportation of engines. Servo Preserve oils meet US Military MIL-L-21260A Type 1 specification. An initial charge of this oil used for preservation can be utilized for normal operation till the first scheduled oil change is made.
Servo Guard 30 Servo Guard 50	10 - 12 19.5 – 20.5	95 90	220 230	5.6 – 8.0 5.6 – 8.0	Servo Guard oils are superior quality engine preservative-cum-running-in oils. Meet US Military MIL-L-21260C specification. Servo Guard oils are recommended as initial fill oils for engines which are shipped abroad or are stored for long periods before actual use. These oils are used for normal operations till the first scheduled oil change is made.

GEAR OILS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	Description / Application
Servo Gear HP 80W Servo Gear HP 80E Servo Gear HP 85 Servo Gear HP 85W Servo Gear HP 90 Servo Gear HP 140 Servo Gear HP 80W-90	8.5 - 10 10 - 12 11 - 13 12 - 13 14 – 16 24.5 – 28.5 14 – 16	85 95 85 85 85 85 90	165 215 180 180 180 180 200	Servo Gear HP oils are hypoid gear oils having long service life due to their extremely good oxidation stability. These oils meet API service classification GL-4, IS:1118-1992 ED Type GL-4, US Military MIL-L-2105 and UK Defence CS 3000A specifications. Servo Gear HP oils are recommended for hypoid, spiral bevel or worm gear transmission systems of cars, buses and trucks requiring EP type lubricants. Servo Gear HP 80W and 85W due to its very low pour point can be used for power transmission units of vehicles operating at sub-zero temperatures.
Servo Gear HP Alfa 75W-90 Servo Gear HP Alfa 80W-90	14 – 16 14 -15.5	150 95	180 160	Servo Gear HP Alfa 75W-90 and Servo HP Alfa 80W-90 meet API service classification GL-4 IS:1118-1992 ED Type GL-4, US Military MIL-L-2105 specifications. These products are recommended for power transmission units of vehicles operating at sub-zero temperatures due to its low pour point. Servo HP Alfa 80W-90 is approved oil by M/s. Maruti Suzuki for their make of cars.
Servo Gear HP 80W(T) Servo Gear HP 90(T) Servo Gear HP 140(T)	8 – 10 16 – 18 28 – 34	90 90 90	165 180 190	These are hypoid gear oils based on selected additive system with good EP and anti-wear characteristics, specially developed and recommended for transmission systems of heavy and light commercial vehicles manufactured by M/s. Tata Motors and M/s. Ashok Leyland. These oil are specially designed for improvements in reliability in transmission gears.
Servo Gear HP 80W-90(T) Servo Gear ALT 80W-90 LL	14 – 16 14 -15.5	90 85	180 200	These are hypoid gear oils based on selected additive system with good EP and anti-wear characteristics, specially developed and recommended for Manual synchromesh. Transmission systems of heavy and light commercial vehicles. Approved against ZF specification TE-ML 02B with drain period of 120000 KMs. Servo Gear HP 80W-90 (T) is approved by MAN and Servo Gear ALT 80W-90 LL is approved by Ashok Leyland.
Servo Gear ALT 90 Servo Gear ALT 140	16.0 - 18.0 25 – 27	85 85	180 180	Servo Gear ALT Oils are extreme pressure automotive gear lubricants satisfying the lubrication requirements of a wide variety of gears. They provide long service life even under high temperature operation and ensures good protection against wear and corrosion. Servo Gear ALT 90 is approved for synchromesh transmission of Ashok Leyland vehicles. Servo Gear ALT 140 is approved for use in their commercial vehicles with spiral bevel type gear axles.

GEAR OILS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	Description / Application
Servo Gear MTXL 80W-90	15 – 16	90	180	These oils developed for manual transmission system of heavy commercial vehicles and light commercial vehicles. These oils are formulated with specific additive system fulfilling certain OEMs requirements, This oil has potential for enhancement oil drain periods from current 80000 KMs to 120000 KMs depending upon operating parameters and OEM recommendations. This meets the plant fill requirement of VE Commercial Vehicles.
Servo Synchro 80W-90	14 – 16	90	180	Servo Synchro 80W-90 is a specially developed gear oil for synchromesh manual gear boxes and transaxle with good low temperature fluidity properties suitable for even sub-zero temperature operation. It offers smooth gear shiftability characteristics. It provides extended oil life compared to conventional API GL-4 oils. Servo Synchro TM 80W90 Is approved by Tata Motors. Servo Synchro TM75W-85 which is a part synthetic oil is also approved by Tata Motors for their HCVs in the 9 speed gear box. Servo Synchro SS 75W-80 meets API GL4, MAN 341 Type E-3,MAN 341 Type Z- 4Volvo 97305 and ZF TE ML 02L credentials and recommended for synchronised Commercial vehicles manual transmissions with potential long drain period of 300000 Kms. Product approved by Tata Motors for use in synchromesh Transmission fitted on. commercial vehicles for long drain applications Tata Motors commercial vehicles for long drain applications. Product approved by Tata Motors for use in Rear axles and live front axels fitted Tata Motors commercial vehicles for long drain applications. Product approved by Tata Motors for extended drain application i.e. 40,000 Kms In synchromesh gear boxes/Transaxels of passenger cars.
Servo Synchro 80W-90 (M)	13.5 - 15	95	180	
Servo Synchro TM 80W-90	14 – 16	90	180	
Servo Synchro TM 75W-85	11.5 – 12.5	135(T)	234(T)	
Servo Synchro TM 75W-80				
Servo Synchro SS 75W-80	8 - 10	145	200	
Servo Synchro TM 80W-90 LL	15 – 16.5	110	210	
Servo Synchro TM 80W-90LL (T)	15 – 16.5	105	210	
Servo Synchro TM 80W-140 LL	16 – 28	115	190	
Servo Gear TM 80W LL	10 - 11	105	210	
Servo Unidrive 80W-90	14.0 15.5	85	160	This is an extreme pressure automotive transmission oil suitable for used in both in Gear Transmission and Axles of Commercial vehicles. It has been formulated with specific additive system to meet the manual transmission oil requirement of BENZ and ZF. It also meets API GL5 requirement for hypoid gears in Axles operating under various combination of high speed.

GEAR OILS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	Description / Application
Servo Gear Super 80W	8.5 – 10	85	165	Servo Gear Super oils are multipurpose hypoid gear oils of heavy-duty type, specially formulated to meet API service classification GL-5, IS:1118-1992 ED type – GL-5, US Military MIL-L-2105D and UK Defence CS 3000B specifications. These oils are recommended for hypoid gear differentials, mechanical transmissions and drive axles operating under severe duty, where bulk oil temperature can reach up to 1500C. Servo Gear Super 80W and 85W, due to its very low pour point can be used in vehicles operating at sub-zero temperatures. The multigrade gear oils are ideal for vehicles operating in areas where ambient temperatures vary widely.
Servo Gear Super 85W	12 – 13	85	180	
Servo Gear Super 85	11-13	85	180	
Servo Gear Super 90	14 – 16	85	180	
Servo Gear Super 140	24.5 – 28.5	85	180	
Servo Gear Super 80W-90	14 – 16	90	200	
Servo Gear Super 85W-140	24.5 – 28.5	85	180	
Servo Gear Super 90(T)	16 – 18	90	180	These oils are formulated with selected additive package to meet the critical requirements of hypoid gear differentials of heavy commercial vehicles. With normal drain periods, These oils exhibit superior reliability performance characteristics compares to conventional differential oil.
Servo Gear Super 140(T)	28 – 34	90	180	
Servo Gear Super LS 90	16 - 18	90	180	Servo Gear Super LS oils in addition to meeting differential oil performance requirements of API GL 5 also possess limited slip characteristics to meet TE-ML 05 specification of M/s. ZF, Germany.Particularly suited for gear and axle systems in Earth Moving Equipment demanding 'Limited Slip' characteristics.
Servo Gear Super LS 80W-90	14 - 16	85	180	
Servo Gear Super 80W- 90(T)	14 – 15.5	85	160	These are heavy duty, multigrade hypoid gear oils containing selected additive systems recommended for use in Axles/Differentials of heavy commercial vehicles operating under widely varying ambient conditions. These oils meet API GL-5, US MIL-L-2105D and IS:1118-1992 ED Type GL-5. These oils exhibit superior reliability performance characteristics compares to conventional differential oil. The EP additive is so chosen to deliver differentiated performance in terms of better reliability compares to conventional EP type oils. Servo Gear Super ALT 85W-140 & Servo Gear Super ALT 85W-140 LL are recommended for Ashok Leyland commercial Vehicles.
Servo Gear Super 85W-140(T)	24.5 – 28.5	90	180	
Servo Gear Super ALT 85W-140	28 - 32	90	180	
Servo Gear Super ALT 85W-140 LL	28 - 31	90	180	

GEAR OILS AND SYNTHETIC GEAR OILS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	Description / Application
Servo Gear Axle 85W-140	25 – 27	90	180	These are heavy duty multigrade special purpose gear oils for differentials / axles of heavy commercial vehicles. These oils are blended from selective additive systems meeting API MT1, API GL-5, MIL-PRF-2105 and has potential for extended drain period From conventional 36000-40000 KMs to 72000-80000 KMs. Servo Gear Axle TM 85W-140 is approved by Tata Motors and Servo Gear Axle ALT 85W-140 is approved by Ashok Leyland. Servo Gear Axle SS 80W-110 meets API GL5,API MT 1 , has oil drain potential of 200,000 kms .
Servo Gear Axle TM 85W-140	25 – 27	90	180	
Servo Gear Axle ALT 85W-140	28 - 31	85	200	
Servo Gear Axle SS 80W-110	19 - 21	135	200	
Synthetic Gear Oils				<p>Servo Syngear HP 75W-90 is a synthetic fluid base automotive gear lubricant of API GL 4 performance level recommended for syncromesh gear transmission system of passenger cars. It possesses excellent assistance to oxidation and ageing and provides extended oil life , component life and reduced wear for use under wide temperature application. Servo Syngear Super 75W-90 is a superior performance synthetic fluid base automotive gear oil of API GL 5 performance level for lubrication of hypoid , spiral bevel, and worm gear axle and manual transmission of passenger & commercial vehicles. It has high load carrying capacity, superior thermal and oxidation stability and provides longer component life and enhanced oil life. Servo Syngear 75W-90 is a superior performance synthetic automotive gear oil of API GL 5 performance level for lubrication of hypoid, spiral bevel, and worm gear axle and manual transmission of passenger & commercial vehicles. It has high load carrying capacity, superior thermal and oxidation stability and provides longer component life and enhanced oil life. It is approved by Voith Germany for their Axle Drive Gear Boxes in DMRC and other Metro Railways.</p>
Servo Syngear HP 75W-90	14 – 17	170	180	
Servo Syngear Super 75W-90	14 – 17	170	180	
Servo Syngear 75W-90 LL	15.7–16.5	150	160	

AUTOMATIC TRANSMISSION FLUIDS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	Pour Point, °C Max.	Description / Application
Servo Transfluid A	7.4 – 7.8	150	180	(-) 39	Servo Transfluid A is a red dyed transmission fluid, having a low coefficient of friction to meet General Motors Type A Suffix A specification. Also meets TES-122 of Detroit Diesel Allison, TEMPL 03 of ZF, Germany and DBL-6623-10 of Daimler Chrysler specifications. Recommended for automatic and power steering units of automobiles and light trucks requiring Type A Suffix A fluid and also for synchromesh gears. Servo Transfluid A is compatible with various types of seal materials.
Servo Transmission Fluid F-10	7.2 - 7.8	150	180	(-) 39	Servo Transmission Fluid 10 is specially formulated to meet the requirements of Ford specification ESW-M2C-33F, demanding high static coefficient of friction to have firm clutch lock-up. Reddish in colour, fortified with additives to give high oxidation stability, good detergent, anti-wear, anti-corrosion and anti-foam characteristics, it can be used for applications requiring transmission fluid meeting Ford ESW-M2C-33F specification. Servo Transmission Fluid 10 is compatible with various types of rubber seals and is suitable for use during all seasons.
Servo Transdex II	7 – 8	150	180	(-) 36	Servo Transdex II is a red dyed transmission fluid, having low coefficient of friction and specially formulated to meet the specification 6137-M (Dexron IID) of General Motors, U.S.A. Has better oxidation stability, low temperature viscosity and longer life compared to earlier GM fluids. Servo Transdex II is recommended for automatic transmission and power steering units of automobiles and light trucks requiring Dexron IID fluids. Compatible with various types of seal materials.
Servo Transdex III	7.0 - 7.5	170 (Typ)	170	(-) 42	Servo Transdex III is high performance automatic transmission fluid meeting the current requirements of GM (Dexron III H) and Ford (Mercon V) for automatic transmissions in addition to Allison C4 performance requirements. Servo Transdex III is recommended for automatic transmission and power steering units of automobiles and light trucks fitted with GM or Ford automatic transmissions.

AUTOMATIC TRANSMISSION FLUIDS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	Pour Point, °C Max.	Description / Application
Servo Transmission C4 SAE 10W Servo Transmission C4 SAE 30	5.6 (min) 9.3 – 12.5	100 90	160 160	(-) 30 (-) 18	Servo Transmission C4 fluids are formulated to meet TES-228 specification and approved by Detroit Diesel Allison Transmission Division of General Motors, U.S.A as a service lubricant for on-highway and off-highway Allison Heavy Duty Automatic Transmissions. These C4 fluids meet severe oxidation stability and have superior Non-Asbestos clutch friction tests, fluoro elastomer seal compatibility and more demanding anti-foam and anti-copper corrosion requirements. Due to superior performance level, these fluids give trouble free longer drain period.
Servo Transmission C4- TO4 SAE 30	10 – 12	90	160	(-) 18	Servo Transmission C4 TO4 is specially formulated to meet the optimum frictional requirements of Caterpillar transmission. It meets TES 228 specification of Detroit Diesel Allison Division of General Motors and Caterpillar TO-4 specification.
Servo Transmission C4 TO 4 SAE 50	18 – 20	98	254	(-) 12	Servo Transmission TO-4 SAE 50 is formulated to meet the optimum frictional requirements of Caterpillar transmission. It meets the requirement of Caterpillar TO-4 and also TES 228 of Detroit Diesel Allison Division of General Motors. It is recommended for use in earth moving equipments fitted with Caterpillar transmission.
Servo Transmission T 20 Servo Transmission T 30	9.1 (Min) 9.6 – 11.0	125 125	200 190	(-) 36 (-) 30	Servo Transmission T oils are formulated to meet J 20C specification of John Deere Tractor Co., U.S.A. . They also meet ESEN – M2C-134C & ESEN-M2C-134B respectively of Ford USA. These oils are recommended for use in torque converters, transmissions and hydraulic systems fitted on tractors and other farm equipments.
Servo Transmission XL 439	9.3 -12.5	100	180	(-)33 Typ	Servo Transmission XL 439 is superior transmission fluid ,gives trouble free longer drain period,wider range of seal compatibility and high Performance. It meets TES 439 specifications (Allison 5000 9000 series off- highway transmissions). Product is backward compatible With TES 228 Allison C4 transmission fluids.

AUTOMATIC TRANSMISSION FLUIDS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	Pour Point, °C Max.	Description / Application
Servo Syntran 295	7 - 8	170	235	-	Servo Syntran 295 is a synthetic transmission fluid for use in commercial vehicles designed to meet the requirements of Allison TES 295 requirements.
Servo Torque 10	4.5 – 5.7	100	170	(-) 27	Servo Torque 10 is a hydraulic transmission fluid for hydro kinetic turbo transmission systems and industrial torque converters containing anti-foam and anti-rust additives and having anti-wear property. Meets specification 3.90-8 of Voith Getreibe, Germany and MTU 1061/9 of Motoren UHD Turbinen Union, Germany. Servo Torque 10 is recommended for turbo transmission systems and gears designed by MTU and Suri-Mak Railroad transmissions. This oil is approved by Indian Railways for use in transmission systems of locomotives
Servo FDAO 60	24.5-26.0	90	230	(-) 9	Servo FDAO 60 is specially formulated to meet the Caterpillar's requirements of FDAO 60 oil for use in final drives and axles of their equipments working under conditions of high load and temperature. It also meets Caterpillar TO4 specification for off-highway power shift transmission. It provides superior protection of highly loaded components.
Servo Steer TM	7.0 – 8.5	150	160	(-) 36	Servo Steer TM is orange dyed power steering and automatic transmission fluid with desired friction characteristics for use in automobiles and light commercial vehicles. It is compatible with seal materials generally used in power steering and transmission systems. It meets ZF TEML 14A,02F,17C,04D requirements, It also meet GM 6137 M (Dextron II D) specification. Product is approved by M/s. Tata Motors as power steering fluid for service fill of TML vehicles.

BRAKE FLUID

PRODUCT	Kin. Vis. cSt at (-) 40 °C, Max.	Kin. Vis. cSt at 100°C Min.	ERBP, °C Min.	Description / Application
Servo Brake Fluid Super HD	1500	1.5	205	Servo Brake Fluid Super HD is a high performance, red dyed, heavy-duty brake fluid which ensures long service life of brake fluid and brake components. Meets SAE J 1703, FMVSS No. 116 DOT 3 and IS: 8654-2004 specifications. Due to high boiling point it does not give vapour lock problems in high temperature operating conditions. It has excellent low temperature characteristics and can be safely used up to (-) 40deg C. Servo Brake Fluid Super HD is recommended for modern hydraulic braking systems including disc type.
Servo Power Brake ALT	1500	1.5	205	Servo Power Brake ALT is a heavy-duty hydraulic brake fluid which ensures long service life of the brake fluid and components of brake mechanism. It ensures a smooth clutch operation and is approved by M/s. Ashok Leyland for use in their Tippers. It meets SAE J 1703, FMVSS 116 DOT 3 & IS 8654 (TYPE II) specifications.
Servo Brake Fluid DOT 3 Plus	1300	2.0	240	This product is specially formulated for Maruti Udyog Limited. It exceeds FMVSS No. 116 DOT 3 and meets JIS-K-2233/89, besides meeting the performance characteristics of Servo Brake Fluid Super HD.
Servo Brake Fluid DOT 4	1800	1.5	230	Servo Brake Fluid DOT 4 is a high performance heavy-duty brake fluid meeting SAE J 1703, FMVSS No. 116 DOT 4 requirements. The fluid ensures long service life of brake components.
Servo Brake Fluid DOT 4 Plus	1250	1.5	255	Servo Brake Fluid DOT 4 Plus is a high performance heavy-duty brake fluid exceeding performance requirements of SAE J 1703, FMVSS No. 116 DOT 4, Mitsubishi Motor's ES-X-64113 and HM Lancer specification EX 64113 BF 4 specifications. The fluid ensures long service life of brake components.

RADIATOR COOLANT

PRODUCT	Freezing Pt. Deg C Max., 30% vol. Sol.	Freezing Pt. Deg C Max., 50% vol. Sol.	Boiling Pt. Deg C Min.	Description / Application
Servokool Plus	(-) 14	(-) 34	155	Servokool Plus is eco-friendly radiator coolant for use in all-modern automotive petrol and diesel vehicles. Meets IS:5759-2006 and JIS-K-2234-2006 specifications. Free from harmful effects of amines, borates, nitrites and silicates. Prevents corrosion of radiator and other parts, increases cooling efficiency. The coolant prevents breakdown of vehicles due to engine overheating and boiling of radiator water. For desired performance 30 parts of the fluid is to be diluted with 70 parts of distilled water in most of the vehicles.
Servokool Hy	(-) 14.5	(-) 34	155	Servokool Hy is a green dyed ecofriendly radiator coolant developed specifically for Hyundai for their Petrol and Diesel Cars. Meets IS:5759-2006 and JIS-K-2234-2006 specifications. Free from harmful effects of amines, borates, nitrites and silicates. Prevents corrosion of radiator and other parts, increases cooling efficiency. The coolant prevents breakdown of vehicles due to engine overheating and boiling of radiator water. For desired performance 30 parts of the fluid is to be diluted with 70 parts of distilled water in most of the vehicles.
Servokool Blue	(-) 14.0	(-) 34	155	Servokool Blue is an eco-friendly long life radiator coolant which meets IS:5759-2006 and JIS-K-2234-2006 specifications. Free from amines, borates, nitrites and silicates thereby eliminating the harmful effects of these elements. It is an all-weather coolant that does not boil and vaporize in summer or freeze in winter. It increases radiator life and stops break down of vehicles due to engine overheating and boiling of radiator water. For desired performance 30 parts of the fluid is to be diluted with 70 parts of distilled water in most of the vehicles.
Servokool ST	(-) 14.5	(-) 34	155	Servokool ST is an eco-friendly long life radiator coolant meeting AS:2553:61:Oct 2005. Free from amine, borates, nitrites, silicates and phosphates. It is an all-weather coolant that does not boil over in summer or freeze in winter. Normal dilution level is 30 parts of the fluid to 70 parts of potable water. For extended life and high extra protection against boil over a dilution level of 50 part of fluid to 50 parts water is suggested.

RADIATOR COOLANT

PRODUCT	Freezing Pt. Deg C Max., 30% vol. Sol.	Freezing Pt. Deg C Max., 50% vol. Sol.	Boiling Pt. Deg C Min.	Description / Application
Servo Kool Ready	(-) 14.5	(-) 34	102	Servo Kool Ready is eco friendly ready to use radiator coolant (diluted with purified water) for both Petrol & Diesel vehicle engines. It is free from Amines, Nitrite, Phosphates and Borates. It provides effective engine cooling, protection against corrosion of radiator and other parts and meets JIS K 2234-2006 specification.
Servo Kool ALT	(-) 14.0	(-) 34	155	Servokool ALT is an ecofriendly long life radiator coolant for light commercial vehicles. It is free from amines, borates, nitrites, phosphates and silicates. Servokool ALT 50 is a 50:50 concentration of Servokool ALT and water and is approved by Ashok Leyland. It exhibits excellent hard water compatibility. Servokool ALT 30 is a 30:70 concentration of Servokool ALT and water and is approved by Ashok Leyland. It exhibits excellent hard water compatibility.
Servokool ALT 50	-	(-) 34	109	
Servokool ALT 30	(-) 14.0	-	102	
Servo Kool HWC	(-) 14.0	(-) 34	155	Servo Kool HWC is an ecofriendly long life radiator coolant for passenger cars and light commercial vehicles. It is free from amines, borates, nitrites phosphates and silicates. For optimum cooling efficiency 30 parts of the fluid is to be diluted with 70 parts of the distilled water in most of the vehicles .and 50:50 concentration is normally adopted for commercial vehicls. It sustains its performance even when used with 700PPM hardness water. Servokool HWC 50 is a 50 :50 concentration of Servokool HWC and water. Servokool HWC 30 is a 30 :70 concentration of Servokool HWC and water.
Servo Kool HWC 50	-	(-) 34	109	
Servo Kool HWC 30	(-) 14.0	-	102	
Servo Kool TM	(-) 14.0	(-) 34	155	Servokool TM is an ecofriendly long life radiator coolant for passenger cars and light commercial vehicles. It is approved by Tata Motors with a dilution level of 50 part of fluid to 50 part of water.
Servo Kool TM Plus	(-) 14.0	(-) 34	155	Servokool TM Plus is an ecofriendly long life radiator coolant for passenger cars and light commercial vehicles. It is free from amines, borates, nitrites phosphates and silicates. It sustains its performance even when used with 700PPM hardness water. Servokool TM Plus is formulated with UV stable dye and is approved by Tata Motors.

RADIATOR COOLANT

PRODUCT	Freezing Pt. Deg C Max., 30% vol. Sol.	Freezing Pt. Deg C Max., 50% vol. Sol.	Boiling Pt. Deg C Min.	Description / Application
Servo Kool HD	(-) 14.0	(-) 34	155	Servokool HD is heavy duty radiator coolant for use in all-modern automotive petrol and diesel vehicles. Meets IS:5759-2006 and JIS-K-2234-2006 specifications. It also meets Bombardier Specifications. Product has excellent Corrosion prevention of radiator and other parts and superior cooling efficiency.
Servo Kool HD 50	-	(-) 34	108	Servokool HD 50 is a 50 :50 concentration of Servokool HD and water.
Servo Kool HD Ready	(-) 14.0	-	102	Servokool HD Ready is a 30 :70 concentration of Servokool HD and water.
BEML Antifreeze	(-) 14	(-) 34	155	BEML Antifreeze is recommended as glycol based coolants for BEML equipment.
BEML Antifreeze 50	-	(-) 34	108	BEML Antifreeze 50 is a 50 :50 concentration of BEML Antifreeze and water.
Servokool NFSC	(-) 15	(-) 38	165	Servokool NFSC is an engine coolant concentrate based on ethylene glycol and is free from nitrites, amines and phosphates but contains silicates. It is compatible with hard water and provides excellent protection to ferrous and non ferrous components against corrosion and frost damage. It meets MAN 324 specification. For best performance 33-50% by vol. of the concentrate should be mixed with tap / potable water before filling into the system.

WATER BASED ENGINE COOLANTS

PRODUCT	Colour	pH of 10 V/V % ge solution in distilled water	Reserve Alkalinity	Description / Application
Servo Anticorr BF	Fluorescent Yellow	8.0 – 9.0	13.0-17.0	These are specially formulated water based coolant to provide overall improvement in engine efficiency by way of superior cooling and corrosion protection of the engine. Its carefully designed organic acids based additive system gives corrosion protection to all six metals namely copper, brass, steel, cast iron , aluminum and solder. It is free from amines, phosphates, borate and silicates. Servo Anticorr BFRR is specifically developed for ALCO LOCO Engines of Indian Railways. Recommended dosage of dilution 2.5% volume in distilled water
Servo Anticorr BFRR	Fluorescent Yellow	8.0 – 9.0	13.0-17.0	
Servo Anticorr	Fluorescent Yellow	10.0 – 11.0	38.0-54.0	These are specially formulated water based coolant to provide overall improvement in engine efficiency by way of superior cooling and corrosion protection of the engine. Its carefully designed organic acids based additive system gives corrosion protection to all six metals namely copper, brass, steel, cast iron , aluminum and solder. It is free from amines, phosphates but contains borates and silicates. Recommended dosage of dilution 3% volume in distilled water.

SHOCK ABSORBER OIL

PRODUCT	Kin. Vis. cSt at 40 °C	Flash Point COC, °C Min.	Pour Point, °C Max.	Description / Application
Servo Shocab	17.5 – 18.5	165	(-) 24	Servo Shocab is superior shock absorber oil with excellent viscosity temperature characteristics, oxidation stability and anti-foam characteristics, It also has very good seal compatibility. Servo Shocab is specially designed to have excellent damping effect for piston type shock absorbers.
Servo Teleshocab	35 – 40	200	(-) 21	Servo Teleshocab is a premium shock absorber oil with high aniline point, superior oxidation stability and anti-foam characteristics. It has excellent seal compatibility and damping effect to increase the life of shock absorbers. Servo Teleshocab is exclusively developed for use in telescopic front forks fitted on motorcycles and is approved by various OEMs.
Servo Shocab ES	36 – 40	185	(-) 39	Servoshocab ES is a premium shock absorber oil with low pour point, high aniline point with shear stable VI improver. This is specially developed and approved by M/s. Endurance Systems as front fork oil.
Servo Shocab KB	14 – 16	150	(-) 45 (T)	Servo Shocab KB is specially designed for heavy duty shock absorbers manufactured by M/s. Knorr, Bremse.
Servo Endurance Front Fork Oil	36.0 – 40.0	185	(-) 39	Servo Endurance Front Fork Oil is a superior shock absorber fluid with excellent viscosity temperature characteristics and oxidation stability, specially developed for rear fork shock assembly made by M/s. Endurance System for motor cycles. It provides excellent damping effect and is approved by M/s. Endurance System.
Servo Shocab Super	22 – 26	150	(-) 45	Servo Shocab Super is a Premium shock absorber oil approved by M/s. Endurance system for use as front fork oil in the high end Bajaj KTM bikes. This meets 2 wheelers requirements of WP suspension Endurance systems.

SHOCK ABSORBER OIL AND CALIBRATION FLUID

PRODUCT	Kin. Vis. cSt at 40 °C	Flash Point COC, °C Min.	Pour Point, °C Max.	Description / Application
Servo Shocab GP	11.5 – 13.0	150	(-) 45	Servo Shocab GP has been developed as an all weather 4 wheeler Shock Absorber Oil for M/s. Gabriel as per their requirements.
Servo Shocab EMM C1	12.5 – 14	140	(-) 45	Servo Shocab EMM C1 has been developed for 4 Wheeler application as per C1 specification of Cofap, magnetic Marelli C1 Brazil. It has been accorded a global approval for wheeler shock absorber application.
Servo Shocab DE 39	14.0 – 15.5	140	(-) 45	Servo Shocab DE 39 has been developed for 4 wheeler Shock absorber Oil for Mark Exhaust Systems. It meets DPM 3900 specifications of Delphi.
Calibration Fluid				
Servo Calib 2	2.45 – 2.75 @ 40 °C	80	(-) 10 (Cloud Point)	Servo Calib oils are low viscosity products specially developed as calibration fluids for diesel injection equipments. Servo Calib 2 meets the specification requirements of ISO:4113 for diesel injector calibration fluids. Servo Calib 5 has been specifically developed for diesel injector equipments used by Indian Railways
Servo Calib 5	5.0 – 6.5 @ 40 °C	110	0	

RAIL ROAD OILS

PRODUCT	Kin. Viscosity cSt at 100°C	VI Min.	Flash Point COC, °C Min.	TBN mg KOH / gm	Description / Application
Servo RR 606 MG Plus (II)	15.5 – 16.3	110	200	10.5 – 12.5	Servo RR 606 MG Plus is Group II base superior performance multigrade railroad oil formulated with selected base oil and additives designed for improved fuel economy, lower oil consumption superior thermo oxidative stability, better TBN retention and lower wear & engine deposits.
Servo RR 520 MG	15.5 – 16.3	110	200	17.0 – 19.5	These are LMOA Generation V zinc free multigrade (SAE 20W-40) rail road oils suitable for GM-EMD Locos. These oils are long drain oils with fuel/lubes saving potential and exhibit superior oxidation stability and excellent detergency and dispersency characteristics.
Servo Magnum RR 610	15.5 – 16.3	110	200	8.5 – 9.5	Servo Magnum RR 610 is new generation high performance Locomotive oils developed Indian railways. It also exceeds API CF Specifications
Servo Magnum RR 510	15.5 – 16.3	110	200	8.5 – 10.7	Servo Magnum RR 510 is new generation high performance Locomotive oils developed for GE high horse power locomotives. It also exceeds API CF Specifications.

AUTOMOTIVE GREASES

PRODUCT	Colour	Worked Penetration at 25 deg C after 60 strokes	Drop Point deg C Min.	Description / Application
Servo Grease C	Dark Brown	310 – 340	90	Servo Grease C is calcium - base grease with extreme pressure properties. It resists water washout. It is recommended for general chassis lubrication including suspension and steering system. It is also suitable for certain open and semi enclosed gears as well as chain drives of farm equipment. Servo Grease C is not recommended for high temperature applications due to its moderate drop point.
Servo Grease WB	Brown	250 – 280	180	Servo Grease WB is sodium base grease which gives excellent performance even when subjected to extremely heavy shear. This grease maintains its structural stability over long service and withstands excessive churning effectively. Servo Grease WB is recommended for wheel bearings and various other automotive grease applications which are not exposed to moisture. It meets IS:10647:1993.
Servo Grease MP Servo Grease MP3	Brown Brown	250 – 280 220 – 250	180 180	Servo Grease MP/MP3 are premium quality lithium base greases having a high drop point and good thermal and structural stability. These greases have high degree of resistance to oxidation and provide protection against rusting and corrosion. Servo Grease MP/MP3 are excellent multipurpose greases suitable for all automotive grease applications. These greases meets IS:12203:2004.

AUTOMOTIVE GREASES

PRODUCT	Colour	Worked Penetration at 25 deg C after 60 strokes	Drop Point deg C Min.	Description / Application
Servo Grease Molex	Black	265 – 295	180	Servo Grease Molex is multipurpose lithium base grease, compounded with finely dispersed MoS ₂ , which is a very effective solid lubricant with extremely good anti-scuffing characteristics. It provides protection to moving parts under very severe shock load conditions, resists water washout and gives long service life. Servo Grease Molex is recommended for chassis fittings, wheel bearings, grease cups, grease lubricated universal joints and other lubrication points in passenger cars, trucks, buses, farm tractors, mobile construction as well as earth moving machineries. It is also suitable for industrial applications where lithium base grease with MoS ₂ is required. It meets IS:12203:2004
Servo Grease CVJ	Grey Black	265 – 295	180	Servo Grease CVJ is lithium-complex base grease containing specialised extreme pressure anti-wear additive with finely dispersed solid lubricant of 5 micron size. This product has excellent roll stability, shear stability, resistance to water washout and excellent anti-frictional properties. Servo Grease CVJ has been specifically developed for constant velocity joints of new generation passenger cars and provides superior wear protection to various parts of the joint such as the axle pin, ball hub, balls and ball casing.
Servo Gem RR 3	Brown	220 – 250	180	Servo Gem RR 3 is premium quality lithium soap grease manufactured from high quality base oils. This grease has excellent resistance to water washout, superior oxidation stability and high degree of anti-rust and anti-corrosion properties. Servogem RR 3 meets specification AAR M-942-82 (modified) except for consistency and passes SKF Emcor corrosion test. This is approved by RDSO for anti-friction bearings of railway axle boxes and for traction motor bearings (sealed type) of Alco locos. This is also recommended for electric motors and automobile wheel bearings to give longer service life. It is also suitable for Wheel Bearing application of Automobiles particularly commercial vehicles.

AUTOMOTIVE GREASES

PRODUCT	Colour	Worked Penetration at 25 deg C after 60 strokes	Drop Point deg C Min.	Description / Application
Servogrease TM	Brown	265 – 295	180	Servogrease TM is a premium quality lithium soap multipurpose automotive grease with good thermal and oxidation stability and resistance to water washout and anti-rust properties. It is specially developed for general chassis lubrication and water pump lubrication of vehicles manufactured by Tata Motors and is approved by them. It meets IS:12203:2004.
Servogem TM3	Brown	220 – 250	180	Servogem TM3 is a premium quality lithium soap multi-purpose grease. It has excellent oxidation and structural stability, resistance to water washout, longer service life and provides outstanding performance under varying operating conditions. It is approved by Tata Motors for lubrication of anti-friction wheel bearings of their commercial vehicles.
Servogem ALT	Brown	220 – 250	180	Servogem ALT is a premium quality lithium soap automotive wheel bearing grease specially formulated to provide longer service life in commercial vehicles of Ashok Leyland. It has excellent oxidation and structural stability, resistance to water washout and provides outstanding performance under varying operating conditions. It passes Emcor corrosion test and WD-17-MISE-92 specifications. It is approved by Ashok Leyland for wheel bearing application.
Servogrease ALT	Brown	250 – 280	180	Servogrease ALT is a premium quality lithium soap multipurpose automotive grease with good thermal and oxidation stability and resistance to water washout and anti-rust properties. It is specially developed for general chassis lubrication and water pump lubrication of vehicles manufactured by Ashok Leyland and is approved by them. It meets IS:12203:2004
Servoplex TM2 Servoplex TM3	Off White Off White	265 – 295 220 – 250	230 230	Servoplex TM2/TM3 is lithium-complex grease using specially refined base oil for use in sealed traction motor bearings. It provides extended bearing life with virtually no-fill lubrication. Servoplex TM3 is approved by RDSO for Alco locos.

AUTOMOTIVE GREASES

PRODUCT	Colour	Worked Penetration at 25 deg C after 60 strokes	Drop Point deg C Min.	Description / Application
Servoplex 3M	Brown	220 – 250	230	Servoplex 3M is a premium quality lithium-complex soap base grease containing high viscosity base oil. It has superior anti-wear properties and high resistance to water washout. It passes EMCOR Anti-Rust Test. It provides excellent performance in anti-friction bearings and much longer service life to wheel bearings of heavy commercial vehicles and earth moving equipments.
Servo Grease Super 3	Brown	220 – 250	316	Servo Grease Super 3 is a premium calcium sulphonate based grease suitable for wheel bearing grease application. This has been approved by Ashok Leyland for a change period of 80,000 Kms.

API Base Oil Classification

Base Oil category	Sulphur (%)	Saturates (%)	Viscosity Index (VI)
Group I	> 0.03	< 90	≥80 to 120
Group II	≤ 0.03	≥ 90	≥80 to 120
Group III	≤ 0.03	≥ 90	≥ 120
Group IV	All polyalphaolefins (PAO)		
Group V	All others not included in Group I, II, III or IV		

GRADE	Neutrals			
	Kinematic Viscosity @40°C		Kinematic Viscosity@100°C	
	cSt	SUS	cSt	SUS
70N	13.3	70.8	3	37
80N	15.6	80.3	3.35	37.3
90N	18	89	3.4	37.5
100N	21.5	104	4	39
140N	30.7	144	4.5	41
150N	31.6	148	4.9	42.4
160N	33.7	158	5.2	43.3
170N	34	159	5.4	44
180N	38.5	181	5.7	44.9
200N	44.5	204	6.2	46
250N	56.1	257	6.5	47
300N	61.3	285	7	49
315N	70	315	7.9	52
330N	70.9	328	8.4	53.7
350N	76	358	8.8	55
400N	86	398.6	9.8	58
450N	98	454	10.5	61
500N	107	496	11	64
600N	130.4	604	12.1	66
650N	141	665	14.8	71
700N	151	668	14	73
135BS	413.2	1875	28.6	135
145 BS	523.3	2425	30.9	145
150 BS	568	2632	33	155
160 BS	600	2800	35.2	166
175 BS	616	2855	36	169.7
185 BS	654.7	3034	37.6	177
225 BS	1030	4800	49.3	229

ISO	Viscosity Range	Approximate Viscosity Range	Approximate Viscosity Range SUS at 98.90C		
GRADE	cSt at 400C	SUS at 37.80C	95 VI	65 VI	35 VI
2	1.98-2.42	32.8-34.4	-	-	-
3	2.88-3.52	36.0-38.2	-	-	-
5	4.14-5.06	40.4-43.5	-	-	-
7	6.12-7.48	47.2-52.0	-	-	-
10	9.00-11.00	57.6-65.4	34.6-35.7	34.2-35.3	33.8-34.9
15	13.5-16.5	75.8-89.1	37.0-38.3	36.4-37.8	36.0-37.3
22	19.8-24.2	105-126	39.7-41.4	39.1-40.6	38.5-40.0
32	28.8-35.2	149-182	42.9-45.0	42.0-43.8	41.4-42.9
46	41.4-50.6	214-262	47.1-49.9	45.4-47.8	44.2-46.2
68	61.2-74.8	317-389	53.0-56.9	50.3-53.4	48.6-51.1
100	90.0-110	469-575	61.4-66.9	56.8-61.0	54.0-57.2
150	135-165	708-869	74.0-81.9	66.6-72.7	62.1-67.2
220	198-242	1046-1283	90.3-101	79.3-87.6	72.6-79.5
320	288-352	1531-1878	112-126	95.7-106	86.3-95.3
460	414-506	2216-2717	139-158	116-130	104-115
680	612-748	3298-4046	178-202	145-162	127-142
1000	900-1000	4885-5994	227-257	181-204	156-175
1500	1350-1650	7385-9063	293-331	229-256	204-219

*Conversion based on 95V

NLGI CLASSIFICATION FOR GREASES

NLGI No.	ASTM Penetration* at 250C	NLGI No.	ASTM Penetration* at 250C
000	445-475	3	220-250
00	400-430	4	175-205
0	355-385	5	130-160
1	310-340	6	85-115
2	265-295		

**AUTOMOTIVE GEAR LUBRICANT VISCOSITY
CLASSIFICATION SAE J306**

SAE Viscosity Grade	Max Temperature for Viscosity of 150,000 cP (0C)(1,2)	Kinematic Viscosity at 1000 C (cSt)3	
		Min(4)	Max
70W	-55(5)	4.1	-
75W	-40	4.1	-
80W	-26	7	-
85W	-12	11	-
80	-	7	<11.0
85	-	11	<13.5
90	-	13.5	<18.5
110	-	18.5	<24.0
140	-	24	<32.5
190	-	32.5	<41.0
250	-	41	-

Note - 1 cP = mPaos; 1 cSt = 1 mm2/s

- Using ASTM D 2983
- Additional low temperture viscosity requirements may be appropriatefor fluids intended for use in light- duty synchronized manual transmissions.
- Using ASTM D 445
- Limit must also be met after testing in CEC L-45-A-99, Method C(20 Hours).
- The precision of ASTM D 2983 has not been established for determinations made at tempraturesbelow -400C. This fact should be taken into consideration in any producer -consumer relationship.

SAE VISCOSITY GRADES FOR ENGINE OILS (1)(2) – SAE J 300 Jan 2015

SAE Viscosity Grade	Low Temperature Viscosities		High Temperature Viscosities		
	Cranking Viscosity(3) (mPa*s @°C)	Pumping Viscosity(4) (mPa*s @°C) w/no yield stress	Low-Shear Rate Kinematic Viscosity(5) (mm2/s) at 100°C		High-Shear Rate Kinematic Viscosity(6) (mPa.s) at 150°C
			Min	Max	Min
	Max	Max			
0W	6200 @ - 35	60,000 @ - 40	3.8		-
5W	6600 @ - 30	60,000 @ - 35	3.8	-	-
10W	7000 @ - 25	60,000 @ - 30	4.1	-	-
15W	7000 @ - 20	60,000 @ - 25	5.6	-	-
20W	9500 @ - 15	60,000 @ - 20	5.6	-	-
25W	13,000 @ - 10	60,000 @ - 15	9.3	-	-
8	-		4	<6.1	1.7
12	-	-	5	<7.1	2
16	-		6.1	<8.2	2.3
20	-		6.9	<9.3	2.6
30	-	-	9.3	< 12.5	2.9
40	-	-	12.5	< 16.3	3.5 (0W-40,5W-40, & 10W-40)
40	-	-	12.5	< 16.3	3.7(15W-40,20W-40,25w-40&40
50	-	-	16.3	< 21.9	3.7
60	-	-	21.9	< 26.1	3.7

1. NOTE: 1 mPa· s = 1 cP; 1 mm2/s = 1 cSt

- All values ,with the exception of the low-temperature cranking viscosity, are critical specifications
- ASTM D 5293: cranking viscosity-The non-critical specification protocol in ASTM D3244 shall be applied with a P value of 0.95
- ASTM D: 4684 Note that the presence of any yield stress detectable by this method constitutes a failure regardless of viscosity
- ASTM D 445
- ASTM D 4683,ASTM D4741,ASTM D5481, or CEC L-036-A-90

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